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COH-0734
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NRO REVIEW COMPLETED

18 January 1960

ACTIVITY PROGRAM

CORONA

1. PURPOSE:

To cover the cost of additional work resulting from the Sheppard Review Committee recommendations on Contract No. [] This contract covers the FY 1959 Program only.

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2. DESCRIPTION OF WORK OR SERVICES REQUIRED:

Work to be performed hereunder concerns the discovery of causes and the solution thereof for recent malfunctions. A large portion of the costs are concerned with qualification, requalification and multiple testing of component parts. Attached (Appendix A) is a list of detailed work to be performed by the Prime and subcontractors to accomplish the above. The estimated price for completion of this work, based on conversations held on 6 January 1960 is [] for General Electric field service which it is anticipated will be charged to the White program. The Contractor is presently without funds to cover the costs of this work, but has been authorized to proceed. It is recommended that [] be added at this time to cover costs through 15 February 1960.

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3. EXPECTED ADDITIONAL OR RELATED WORK OR SERVICES:

The work to be performed under paragraph 2 above incorporates changes in configuration for Units 9004 and 9005, and assumes all units subsequent to unit 9005 shall be to the configuration of Unit 9006. Any additional changes required would be considered additional work.

4. TOTAL ESTIMATED COST:

Tab A attached hereto furnishes detailed data on the entire CORONA program including items covered by funds from other sources. The following summary is presented with regard to Contract []

Total contract price (including all new work)
Present contract price
Additional 1960 funding required
Funding available (1960 Budget)
Funding required from Agency Reserve

*This figure does not include the estimated cost of [] for General Electric field service personnel. It is assumed that this will be covered by "white side" funding.

Tab B attached hereto furnishes a current funding report on the CORONA, CORONA Follow-On and ARGON programs.

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5. DELIVERY SCHEDULE OR PERIOD OF PERFORMANCE:

Not applicable

6. REMARKS:

This covers the 1959 program only. The CORONA Follow-on (1960 program) and the ANJON Program have been covered completely by Air Force/ARPA funding. Approval of this Activity Program will authorize the DD/P Controller to take such action as is required to obtain the [] from the Agency Reserve.

[]
Authorized DFD-DD/P Requester

CONCURRENCE:

WILLIAM BURKE
Colonel, USAF
Acting Chief, DFD-DD/P

20 Jan. 1960

RECOMMENDED FOR APPROVAL:

RICHARD M. BISSELL, JR.
Deputy Director (Plans)

21 Jan. 1960

ALLEN W. BULLER
Director

23 Jan 1960

DDCI 22 Jan. '60
DFD-DD/P []

Distribution:

- 1 - Contracts/DFD
- 1 - DD/P
- 1 - A/CH/DFD
- 1 - Ch/IB/DFD
- 1 - Comp/DFD
- ✓ 1 - RI/COR

7. CONDITIONS OF APPROVAL:

Subject to availability of funds from DD/P budget and release from the Reserve.

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c. Continued

System test during period 27 August 1959 to 20 November 1959 in the AVCO Test Chamber. A total of 14 tests were completed, including two 2-day tests and six 1-day tests, without failure.

d. Film Tests

1. Dynamic Tensile Strength.
2. Shock.
3. Static Tensile Strength.
4. Brittleness.
5. Tear Resistance.
6. Shrinkage.
7. Moisture Dynamics.
8. Sensitometry and Resolution.
9. Pressure Marking.
10. Dry Spool.

e. Clutch and Brake Properties at Altitude

A Series of tests will be conducted on the scan clutch to evaluate performance of the clutch and friction material at low atmospheric pressure. The tests will be instrumented to measure temperature rise in electro-magnetic coil and low pressure tests will be conducted through the range of probable voltages.

f. Miscellaneous Testing

Requalification testing in shock and vibration.
Camera Deformation Testing.
Cassette Testing.

II. IMSD

- a. Acceleration qualification and testing.
- b. Vibration qualification and testing.
- c. High altitude temperature simulation testing.
- d. Camera deformation testing.
- e. Thermal distortion.

A. Testing Program Subsequent to Vehicle 9003.

I. Itak - Fairchild

a. Post Flight Test Analysis Program

1. Environmental Test of Drive Motor and Lubricant.
2. Complete Package Test at Simulated Altitude.
3. Altitude Tests of HYAC Camera.
4. Trip Report to Eastman Kodak concerning Film Test.
5. Misalignment Test, Camera to Cassette.
6. Mechanically Induced Failure Test.
7. Film Shrinkage at Altitude.
8. Vapor Pressure Tests of Anderol X1101 Lubricant and 1188 Film.
9. Film Supply and Flexibility at Altitude.
10. Rapid Decompression Test.
11. Inland Torque Motor Test.
12. Reports of Visits re Lubricants at Altitude.
13. Investigation of Loss of Film Tension at Altitude.
14. Film Tension Control Circuit.
15. Further Investigation of Rubber Expansion.

b. System Mating Procedure and Interface Analysis

1. Altitude Sensitivity.
2. Voltage Variation.
3. Misalignment Limits.
4. Alignment Procedures.
5. C System Combination Minimum Temperature Limits.

Results of the investigations were presented to LMSD for use in the total system analysis.

c. Camera Altitude Test (Ambient Pressure 10^{-5} MM/HG or Lower).

m. Modify thrust cone programmer.

n. Modify parachute cover.

o. Add thermal insulation between cassette fixture and recovery capsule.

p. Add thermal insulation between recovery capsule and ablative shell.

q. Retrofit 10 nose cones.

C. Delivery

2 June 1959

1 July 1959

1 Oct. 1959

1 Nov. 1959

2 Jan. 1960

2 Feb. 1960

2 March 1960

1 April 1960

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